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PTO/SB/05 (4/98)
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UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))</i>	Attorney Docket No.	12270-B
	First Inventor or Application Identifier	Curtis Lee Carrender
	Title	Distance/Ranging by Determination of RF..
	Express Mail Label No.	EK386615214US

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i> 2. <input checked="" type="checkbox"/> Specification <i>[Total Pages 21]</i> (preferred arrangement set forth below) - Descriptive title of the invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the invention - Brief Summary of the invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <i>[Total Sheets 3]</i> 4. Oath or Declaration <i>[Total Pages 3]</i> a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d)) <i>(for continuation/divisional with Box 16 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).	5. <input type="checkbox"/> Microfiche Computer Program (Appendix) 6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies
ACCOMPANYING APPLICATION PARTS 7. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) 8. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i> 9. <input type="checkbox"/> English Translation Document (if applicable) 10. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 11. <input type="checkbox"/> Preliminary Amendment 12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 13. <input checked="" type="checkbox"/> * Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application, Status still proper and desired (PTO/SB/09-12) 14. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 15. <input type="checkbox"/> Other:	
16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No: _____ Prior application information: Examiner _____ Group / Art Unit: _____ For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.	

17. CORRESPONDENCE ADDRESS <input type="checkbox"/> Customer Number or Bar Code Label <input checked="" type="checkbox"/> Correspondence address below <i>(Insert Customer No. or Attach bar code label here)</i>					
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	Battelle Memorial Institute				
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City	Richland	State	WA	Zip Code	99352
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Name (Print/Type)	Stephen R. May	Registration No. (Attorney/Agent)	29,255
Signature	<i>Stephen R. May</i>	Date	June 6, 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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FEE TRANSMITTAL For FY 2000 Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 AND 1.28. TOTAL AMOUNT OF PAYMENT (\$) <u>504.00</u>		Complete If Known <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Application Number</td><td>Not Assigned</td></tr> <tr><td>Filing Date</td><td>Herewith</td></tr> <tr><td>First Named Inventor</td><td>Carrender</td></tr> <tr><td>Examiner Name</td><td>Not Assigned</td></tr> <tr><td>Group/Art Unit</td><td>Not Assigned</td></tr> <tr><td>Attorney Docket No.</td><td>12270-B</td></tr> </table>		Application Number	Not Assigned	Filing Date	Herewith	First Named Inventor	Carrender	Examiner Name	Not Assigned	Group/Art Unit	Not Assigned	Attorney Docket No.	12270-B																																																																																																								
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METHOD OF PAYMENT (check one) 1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to: Deposit Account Number: <u>02-1275</u> Deposit Account Name: <u>Battelle Memorial Institute - PND</u> <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 2. Payment Enclosed: <input type="checkbox"/> check <input type="checkbox"/> Money Order <input type="checkbox"/> Other		FEE CALCULATION (continued) 3. ADDITIONAL FEES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105 130 205 65</td><td></td><td>Surcharge- late filing fee or oath</td><td></td></tr> <tr><td>127 50 227 25</td><td></td><td>Surcharge- late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139 130 139 130</td><td></td><td>Non-English specification</td><td></td></tr> <tr><td>147 2,520 147 2,520</td><td></td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112 920* 112 920*</td><td></td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113 1,840* 113 1,840*</td><td></td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115 110 215 55</td><td></td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116 380 216 190</td><td></td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117 870 217 435</td><td></td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118 1,360 218 680</td><td></td><td>Extension for reply within forth month</td><td></td></tr> <tr><td>128 1,850 228 925</td><td></td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119 300 219 150</td><td></td><td>Notice of Appeal</td><td></td></tr> <tr><td>120 300 220 150</td><td></td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121 260 221 130</td><td></td><td>Requesting for oral hearing</td><td></td></tr> <tr><td>138 1,510 138 1,510</td><td></td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140 110 240 55</td><td></td><td>Petition to revive – unavoidable</td><td></td></tr> <tr><td>141 1,210 241 605</td><td></td><td>Petition to revive – unintentional</td><td></td></tr> <tr><td>142 1,210 242 605</td><td></td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143 430 243 215</td><td></td><td>Design issue fee</td><td></td></tr> <tr><td>144 580 224 290</td><td></td><td>Plant issue fee</td><td></td></tr> <tr><td>122 130 122 130</td><td></td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123 50 123 50</td><td></td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126 240 126 240</td><td></td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581 40 581 40</td><td></td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146 690 246 345</td><td></td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149 690 249 345</td><td></td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td colspan="3">Other fee (specify)</td><td></td></tr> <tr><td colspan="3">Other fee (specify)</td><td></td></tr> </tbody> </table>		Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105 130 205 65		Surcharge- late filing fee or oath		127 50 227 25		Surcharge- late provisional filing fee or cover sheet		139 130 139 130		Non-English specification		147 2,520 147 2,520		For filing a request for reexamination		112 920* 112 920*		Requesting publication of SIR prior to Examiner action		113 1,840* 113 1,840*		Requesting publication of SIR after Examiner action		115 110 215 55		Extension for reply within first month		116 380 216 190		Extension for reply within second month		117 870 217 435		Extension for reply within third month		118 1,360 218 680		Extension for reply within forth month		128 1,850 228 925		Extension for reply within fifth month		119 300 219 150		Notice of Appeal		120 300 220 150		Filing a brief in support of an appeal		121 260 221 130		Requesting for oral hearing		138 1,510 138 1,510		Petition to institute a public use proceeding		140 110 240 55		Petition to revive – unavoidable		141 1,210 241 605		Petition to revive – unintentional		142 1,210 242 605		Utility issue fee (or reissue)		143 430 243 215		Design issue fee		144 580 224 290		Plant issue fee		122 130 122 130		Petitions to the Commissioner		123 50 123 50		Petitions related to provisional applications		126 240 126 240		Submission of Information Disclosure Stmt		581 40 581 40		Recording each patent assignment per property (times number of properties)		146 690 246 345		Filing a submission after final rejection (37 CFR § 1.129(a))		149 690 249 345		For each additional invention to be examined (37 CFR § 1.129(b))		Other fee (specify)				Other fee (specify)			
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SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Stephen R. May	Registration No. (Attorney/Agent)	29,255
Signature	<i>Stephen R. May</i>	Telephone	(509) 375-2387
		Date	June 6, 2000

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Curtis Lee Carrender

For: DISTANCE/RANGING BY
DETERMINATION OF RF
PHASE DELTA

Our Ref. No: 12270-B

Date: June 5, 2000

CERTIFICATE OF MAILING

Box PATENT APPLICATION
Commissioner of Patents and Trademarks
Washington, DC 20231

Dear Sir:

The undersigned hereby certifies that the attached:

- ☒ [X] Patent Application of ____ pages, and
- ☒ [X] Drawings of ____ Sheets
- ☒ [X] Fee Transmittal (2 ea.)
- ☒ [X] Assignment / Cvr. Sheet
- ☒ [X] Combined Declaration and Power of Attorney
- ☒ [X] Small Entity
- ☐ [] Information Disclosure
- ☐ [] with attachments

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Janice K. Laybourn
signature

June 6, 2000
Date Deposited

Janice K. Laybourn K1-53
Intellectual Property Services
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Pacific Northwest Laboratories
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Richland, WA 99352
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